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the merozoites. The merozoites were few in number, with definite nuclei. The reticulum was coarse. The plasmodia were regular in shape, and the red cells to which they were attached were slightly decreased in size.

#### Diagnosis.

The clinical symptoms, with the endogenous cycle of development of the plasmodia of 72 hours, show that the cases were of quartan malaria. This was further shown on microscopical examination of the blood. (Quartan malaria has heretofore not been reported in California.)

### PLAGUE-PREVENTION WORK.

#### LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following reports of plague-eradication at New Orleans were received from Surg. Creel, of the United States Public Health Service, in charge of the work:

WEEK ENDED JAN. 8, 1916.

OUTGOING QUARANTINE.		LABORATORY OPERATIONS.	
Vessels fumigated with sulphur.....	16	Rodents received by species:	
Vessels fumigated with carbon monoxide..	13	Mus rattus.....	155
Vessels fumigated with cyanide gas.....	4	Mus norvegicus.....	934
Sulphur used, pounds.....	2,494	Mus alexandrinus.....	178
Coke consumed in carbon-monoxide fumiga-		Mus musculus.....	6,729
tion, pounds.....	21,000	Wood rats.....	215
Cyanide used in cyanide-gas fumigation,		Musk rats.....	77
pounds.....	128	Putrid (included in enumeration of	
Sulphuric acid used in cyanide-gas fumiga-		species).....	68
tion, pints.....	192	Total rodents received at laboratory.....	8,288
Clean bills of health issued.....	30	Rodents examined.....	2,190
FIELD OPERATIONS.		Rats suspected of plague.....	26
Rodents trapped.....	8,050	Plague rats confirmed.....	None.
Premises inspected.....	6,267	PLAGUE STATUS TO JAN. 8, 1916.	
Notices served.....	859	Last case of human plague, Sept. 8, 1915.	
Garbage cans installed.....	86	Last case of rodent plague, Dec. 28, 1915.	
BUILDINGS RAT PROOFED.		Total number of rodents captured to Jan. 8.	567,693
By elevation.....	95	Total number of rodents examined to Jan. 8.	316,683
By marginal concrete wall.....	130		
By concrete floor and wall.....	102	Total cases of rodent plague to Jan. 8, by	
By minor repairs.....	178	species:	
Total buildings rat proofed.....	505	Mus musculus.....	6
Concrete laid, square yards.....	6,826	Mus rattus.....	18
Premises, planking and shed flooring re-		Mus alexandrinus.....	9
moved.....	86	Mus norvegicus.....	239
Buildings demolished.....	46		
Total buildings rat proofed to date (abated)	98,501	Total rodent cases to Jan. 8, 1916.....	272

WEEK ENDED JAN. 15, 1915.

OUTGOING QUARANTINE.	
Vessels fumigated with sulphur.....	12
Vessels fumigated with carbon monoxide...	11
Vessels fumigated with cyanide gas.....	6
Sulphur used, pounds.....	650
Coke consumed in carbon-monoxide fumigation, pounds.....	14,800
Cyanide used in cyanide-gas fumigation, pounds.....	146
Sulphuric acid used in cyanide-gas fumigation, pints.....	218
Clean bills of health issued.....	30

FIELD OPERATIONS.	
Rodents trapped.....	8,327
Premises inspected.....	6,764
Noticos served.....	903
Poisons placed.....	4,677
Garbage cans installed.....	56

BUILDINGS RAT PROOFED.	
By elevation.....	86
By marginal concrete wall.....	142
By concrete floor and wall.....	193
By minor repairs.....	246
Total buildings rat proofed.....	667
Concrete laid, square yards.....	7,445
Premises, planking and shed flooring removed.....	107
Buildings demolished.....	93
Total buildings rat proofed to date (abated).....	99,168

LABORATORY OPERATIONS.	
Rodents received by species:	
<i>Mus rattus</i> .....	138
<i>Mus norvegicus</i> .....	799
<i>Mus alexandrinus</i> .....	127

LABORATORY OBSERVATIONS—continued.	
Rodents received by species—Continued.	
<i>Mus musculus</i> .....	6,916
Wood rats.....	281
Musk rats.....	10
Putrid (included in enumeration of species).....	57
Total rodents received at laboratory.....	8,274
Rodents examined.....	2,097
Rats suspected of plague.....	41
Plague rats confirmed.....	1

PLAGUE RAT.	
Case No. 273:	
Address, 111 Lafayette Street.	
Captured, Dec. 17, 1915.	
Diagnosis confirmed, Jan. 13, 1916.	
Treatment of premises: Intensive trapping, removal of wooden flooring and replacement with concrete; destruction of rat harbors.	

PLAGUE STATUS TO JAN. 15, 1916.	
Last case of human plague, Sept. 8, 1915.	
Last case of rodent plague, Dec. 28, 1915.	
Total number of rodents captured to Jan. 15.	576,020
Total number of rodents examined to Jan. 15.....	318,780
Total cases of rodent plague to Jan. 15, by species:	
<i>Mus musculus</i> .....	6
<i>Mus rattus</i> .....	18
<i>Mus alexandrinus</i> .....	9
<i>Mus norvegicus</i> .....	240
Total rodent cases to Jan. 15, 1916....	273

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

### Honolulu.

WEEK ENDED JAN. 1, 1916.

Total rats taken.....	261
Rats trapped.....	217
Rats shot from trees.....	15
Rats killed by sulphur dioxide.....	14
Examined microscopically.....	234
Showing plague infection.....	0
Classification of rats trapped:	
<i>Mus alexandrinus</i> .....	76
<i>Mus musculus</i> .....	82
<i>Mus norvegicus</i> .....	45
<i>Mus rattus</i> .....	29
Classification of rats shot from trees:	
<i>Mus alexandrinus</i> .....	12
<i>Mus rattus</i> .....	3

Classification of rats killed by sulphur dioxide:	
<i>Mus alexandrinus</i> .....	12
<i>Mus rattus</i> .....	2
Average number of traps set daily.....	984
Cost per rat destroyed..... cents..	28
Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910.	
Last case human plague, Honolulu, July 12, 1910.	
Last case rat plague, Eamaka'ua Mili, Paaulo, Hawaii, Dec. 15, 1915.	
Last case human plague, Paauhau Plantation, Hawaii, Dec. 16, 1915.	

## Hilo.

WEEK ENDED DEC. 25, 1915.

Rats and mongoose taken .....	2,226	Classification of rats trapped and found dead:	
Rats trapped.....	2,185	Mus norvegicus .....	328
Rats found dead.....	4	Mus alexandrinus .....	299
Mongoose taken.....	37	Mus rattus.....	649
Rats and mongoose examined macroscopically.....	2,226	Mus musculus.....	913
Rats and mongoose examined microscopically.....	3	Last case of rat plague, Paaulo, Dec. 15, 1915.	
Rats and mongoose, plague-infected.....	None.	Last case of human plague, Kalopa, Paauhau, Dec. 16, 1915.	

## PORTO RICO—PLAGUE PREVENTION.

The following table shows the number of rats, mice, and mongoose examined in Porto Rico for plague infection during the two weeks ended January 7, 1916:

Place.	Rats.	Mice.	Mongoose.
San Juan.....	127	9	.....
Puerta de Tierra.....	87	6	.....
Santurce.....	253	12	1